

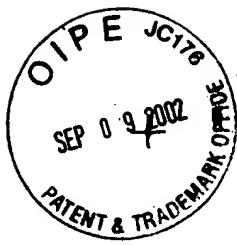


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APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
	CRAFTSMAN

5 10  
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys  
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys  
\* \* \* \* \*  
Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val  
25 30  
Ser Cys Lys Ala Ser Gly Tyr Thr Phe Asn Ser Tyr  
\* \* \* \* \*  
Ser Cys Lys Ala Ser Gly Phe Asn Ile Lys Asp Tyr  
Ser Cys Lys Ala Ser Gly Phe Asn Ile Lys Asp Tyr  
45 50  
Pro Gly Gln Gly Leu Glu Trp Met Gly Ile Ile Asn  
\* \* \* \*  
Pro Gly Gln Gly Leu Glu Trp Ile Gly Trp Ile Asp  
\* CDR  
Pro Glu Gln Gly Leu Glu Trp Ile Gly Trp Ile Asp  
65 70  
Ala Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg  
\* \*  
Asp Pro Lys The Gln Gly Arg Val Thr Met Thr Arg  
\* \* \* \* \*  
Asp Pro Lys Phe Gln Gly Lys Ala Ser Ile Thr Ser  
85 90  
Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala  
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala  
\* \*  
Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala  
105 110  
- - - - - - - - - - - - -  
Thr Ser Ser Phe Asp Phe Trp Gly Gln Gly Thr Thr  
CDR 3  
Thr Ser Ser Phe Asp Phe Trp Gly Gln Gly Thr Thr  
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## FIG. 1B

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15	20		
Lys Pro Gly Ala Ser Val Lys Val		Human HV3 VH	
Lys Pro Gly Ala Ser Val Lys Val	"CDR Grafted"	VH	
* * *	*		
Arg Pro Gly Ala Leu Val Lys Leu	Murine 1308F VH		
35	40		
Tyr Met His Trp Val Arg Gln Ala			
* * *			
<u>Tyr Ile Tyr</u> Trp Val Arg Gln Ala	*	*	
CDR 1			
Tyr Ile Tyr Trp Val Lys Gln Arg			
55	60		
Pro Ser Gly Gly Ser Thr Ser Tyr			
* * * * *	*	*	
<u>Pro Glu Asn Gly Asn Thr Val Phe</u>			
2			
Pro Glu Asn Gly Asn Thr Val Phe			
75	80		
<u>Asp Thr Ser Thr Ser Thr Val Tyr</u>			
Asp Thr Ser Thr Ser Thr Val Tyr			
* * *			
Asp Thr Ser Ser Asn Thr Ala Tyr			
95	100		
Val Tyr Tyr Cys Ala			
Val Tyr Tyr Cys Ala <u>Tyr Tyr gly</u>			
Val Tyr Tyr Cys Ala Tyr Tyr Gly			
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- - - - -			
Leu Thr Val Ser Ser			
Leu Thr Val Ser Ser			



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2 A

FIG. 2A

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FIG. 2B

APPROVED	O. G. FIG.
BY	CLASS SUBCLASS
	DRAFTSMAN



APPROVED	O. C. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

# FIG. 3A

5 1 17

5' gcgaaattccatggacctggagggtc 3'  
Met Asp Phe Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly Ala His Ser Gln  
5' CCATGGACTGGACCTGGGTCTTCTGCTGGCTGTAGCACCAGGTGCCACTGCCAG  
1 +-----+-----+-----+-----+-----+-----+-----+-----+-----+  
3' TACCTGACCTGGACCTCCCCAGAACGACGAACGAAAGAACGACATCGTGGTCCACGGGTGAGGGTC  
Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser  
GTGCAGCTGGTGGAGCTGGAGCTGAAGGTGAAGGCTTGAGGCTTGAGGTTTCC  
61 +-----+-----+-----+-----+-----+-----+-----+-----+-----+  
CACGTGGACACCGTCAGACCTCGACTCCACCTCTGGACACTCGGAGTCACCTCCAAAGG  
Cys Lys Ala Ser Gly Phe Asn Ile Lys Asp Tyr Tyr Ile Tyr Trp Val Arg Gln Ala Pro  
TCCAAGGCATCTGGATTCACATTAGGACTACTACATTACTGGCTGCGACAGGGCTCC  
121 +-----+-----+-----+-----+-----+-----+-----+-----+  
ACGTTCCGTAGACCTAAAGTTGTAATTCCTGATGATGTAATGACCCACGCTGTCCGAGGA  
181 +-----+-----+-----+-----+-----+-----+-----+-----+  
CCTGTTCCCGAGCTCACCTACCCAACCTAAACTGGACTCTTACCATATTGACACAAACTG

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F I G . 3 B

ProLysPheGlnGlyArgValThrNetThrArgAspThrSerThrSerThrValTyrMet  
CCGAAGTTCCAGGGCAGAGTCACCATGACCAACGGACACGTCACGAGCACAGTCTACATG  
241-----+-----+-----+-----+-----+-----+-----+-----+-----+  
GGCTTCAAGGTCCCCGTCTCAGTGGTACTGGTCCCTGTGCAGGTGCTCGTGTCAGATGTAC  
6-----+-----+-----+-----+-----+-----+-----+-----+-----+  
GluLeuSerSerLeuArgSerGluAspThrAlaValTyrTyrCysAlaTyrTyrGlyThr  
GAGCTGAGCAGCCTGAGATCTGAGGACACGGGCGTGTATTACTGTGCGTACTACGGTACA  
301-----+-----+-----+-----+-----+-----+-----+-----+-----+  
CTCGACTCGTGGACTCTAGACTCCCTGTGCACGGCACATAATGACACAGCATGATGCCATGT  
361-----+-----+-----+-----+-----+-----+-----+-----+-----+

SerSerPheAspPheTrpGlyGlnGlyThrThrLeuThrValSerSer  
AGCTCCATTGACTTGGGCAAGGCACACTCTCACAGTGAGCTCA  
361-----+-----+-----+-----+-----+-----+-----+-----+-----+

TCGAGGAAACTGAAGAACCCCCGGTTCCGGTGGTGAGAGTGTCACTCGAGTatttcctagg 5'  
3', ggtgagagtgactcgaggatttcctaggcc 5'

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APPROVED	D. G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS



F | G. 4A

61 LysCysAspIleGlnMetThrGlnSerProSerThrLeuSerAlaSerValGlyAspArg  
AAATGTGATATCCAGATGCCAGTACCCAGTCTCCACCCCTGTCATCTGTAGGAGACAGA  
TTTACACTATAGGTCTACTGGGTCAAGAGGAACGGTGGACAGACGTTAGACATCCTCTGTCT

ValYhrIleThrCysLysAlaSerGlnAspIleAsnArgTyrLeuAsnTrpTyrGlnGln  
GTCAACCATCACTGGCAAGGCAGTCAGGACATTAAATAGGTAGTTAAACTGGTACCAAGCAG  
CAGTGGTAGTGAACGTTCCGGCTCAGTCCTGTAATTATCCATAAAATTGACCATGGTCGTC

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181 TTTGGCCCTTCGGGATTCGAGGACTAGATAGCACGTTTGTCATAACCCAG

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FIG. 4 B

APPROVED	O. G. FIG.
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	DRAFTSMAN

241

GlnProAspPheAlaThrTyrCysLeuGlnPheHisGluPheProTyrThrPhe  
CAGCCTGATTGAACTTACGTTACAGTTCATGAGTTCCGTACACGTT  
GTGGGACTAAACGTTGAATAATGACGGATGTCAAAGTCAAAAGGCAATGTGCAAG  
3' qtacaaq

103

GlyGlyGlyThrLysLeuGluIleLys  
GGAGGGGGACCAAGCTTGAAATAAA

153

CCTCCCCCTGGTCACTTATT 5'



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APPROVED	O.G. FIG.
BY	CLASS
DRAFTER	SUBCLASS

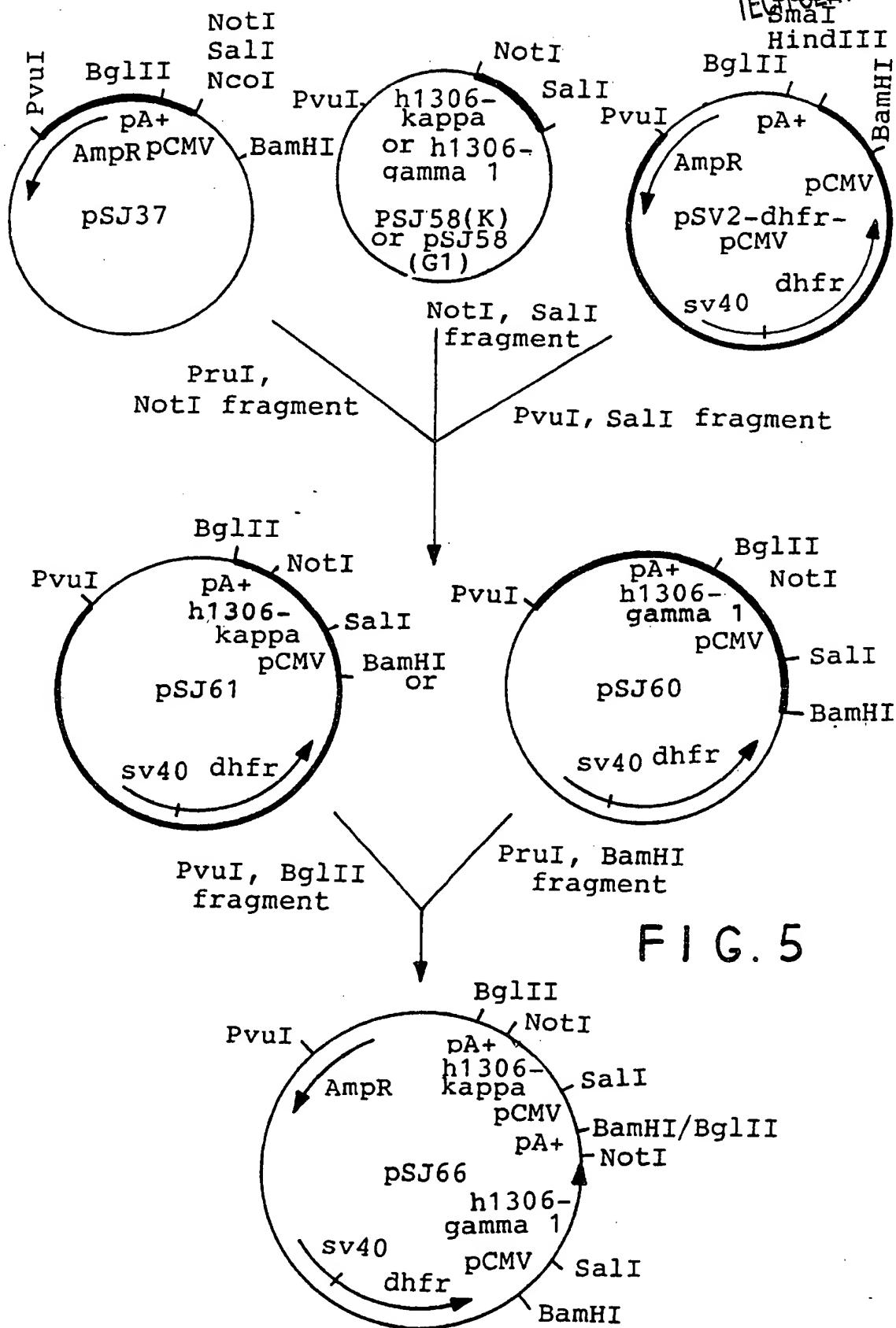


FIG. 5



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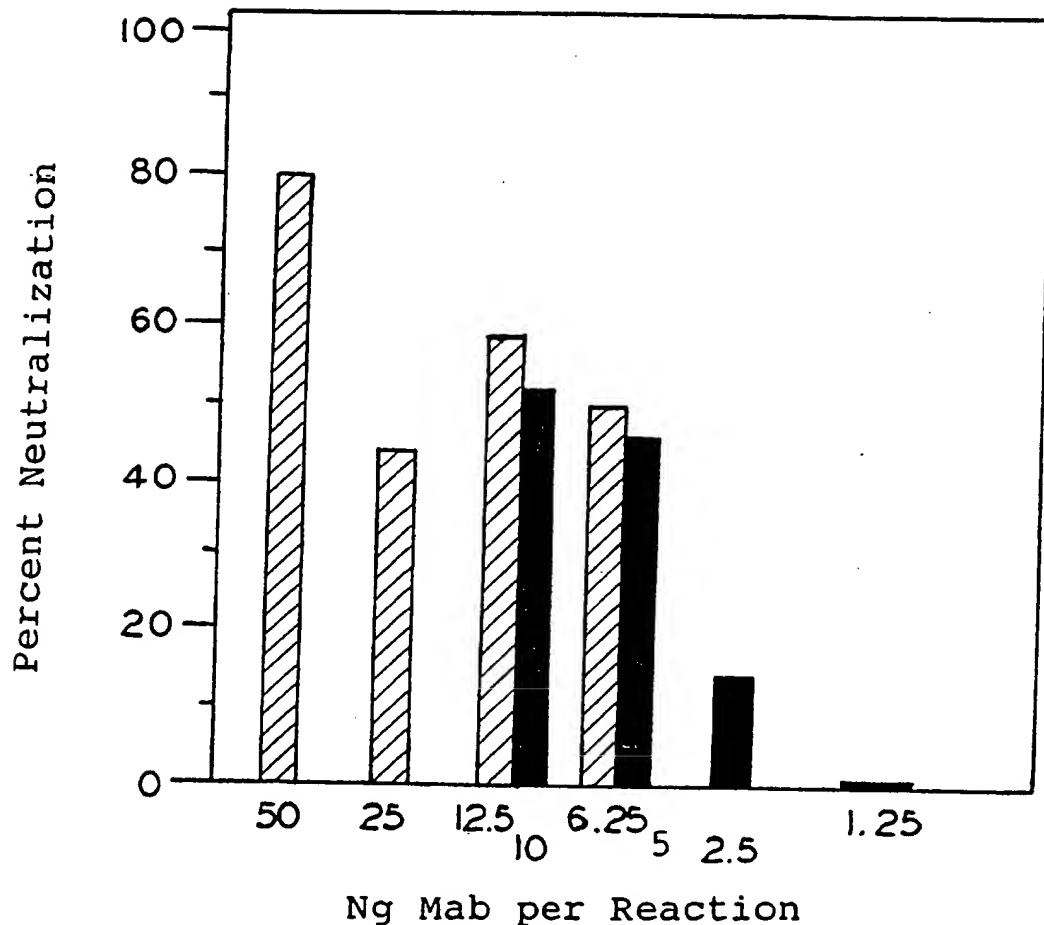
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## FIG. 6

- Neut with Cos Hu
- ▨ Neut with 1308F Mu





APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

## FIG. 7A

Gln Val Thr Leu Arg Glu Ser Gly Pro <sup>5</sup>  
 1 Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Human VH (Cor)  
 \* \* \* \* \*  
 Gln Val Glu Leu Gln Glu Ser Gly Pro Gly Ile Leu Gln Pro Ser Murine 1129 VH  
 10 15

Gln Yhr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser  
 16 Gln Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser  
 \* \* \* \* \*  
 Gln Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu Ser

Ser Ser Gly Met Cys Val Gly Trp Ile Arg Gln Pro Pro Gly Lys  
 \* \* \* \* \*  
 31 Thr Ser Gly Met Ser Val Gly Trp Ile Arg Gln Pro Pro Gly Lys  
 \* \* \* \* \*  
 Thr Ser Gly Met Ser Val Gly Trp Ile Arg Gln Pro Ser Gly Glu

Ala Leu Glu Trp Leu Ala Asp Ile Glu Trp Asp Asp Asp Lys Asp  
 46 Ala Leu Glu Trp Leu Ala Asp Ile Trp Trp Asp Asp Asp Lys Lys Asp  
 \* \* \* \* \*  
 Gly Leu Glu Trp Leu Ala Asp Ile Trp Trp Asp Asp Lys Lys Asp

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APPROVED	O. G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

## FIG. 7B

61 Tyr Asn Pro Ser Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr  
 Tyr Asn Thr Ser Leu Asp Thr \* \* Arg Leu Thr Ile Ser Lys Asp Thr

Tyr Asn Pro Ser Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr

127 17  
 Swe Lys Asn Gln Val Val Leu Thr Val Thr Asn Met Asp Pro Ala  
 76 Ser Lys Asn Gln Val Val Leu Lys Val Thr Asn Met Asp Pro Ala  
 Ser Ser Asn Gln Val Phe Leu Lys Ile Thr Gly Val Asp Thr Ala  
 Asp Thr Ala Thr Tyr Tyr Cys Ala Arg Ile Yhr Val Ile Pro Ala Pro Ala Gly  
 91 Asp Thr Ala Thr Tyr Tyr Cys Ala Arg Ser Met Ile Thr Asn Trp  
 Asp Thr Ala Thr Tyr Tyr Cys Ala Arg Ser Met Ile Thr Asn Trp  
 Tyr Met Asp Val Trp Gly Arg Gly Thr Pro Val Thr Val Ser Ser  
 106 Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val Thr Val Ser Ser

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FIG. 8A

Asp Ile Gln Met Thr Gln Ser Pro Ser	5	Thr Leu Ser Ala Ser Val	15	- Human K102 VL (SEQ ID 33)
Asp Ile Gln Met Thr Gln Ser Pro Ser	10	Thr Leu Ser Ala Ser Val	15	- "CDR Grafted" VL (SEQ ID 34)
* Asp Ile Gln Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro	10	* * * * *	15	- Murine 1129 VL (SEQ ID 35)
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser	20	25	30	
Gly Asp Arg Val Thr Ile Thr Cys <u>Lys Cys Gln</u> Leu Ser Val Gly	20	* * * * *	30	
Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Gly	25	30	35	
Ser Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys	35	40	45	
* * * * Tyr Met His - Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys	35	40	45	
Tyr Met His - Trp Tyr Gln Gln Lys Ser Ser Thr Ser Pro Lys	40	45	50	
Leu Leu Ile Tyr Asp Ala Ser Ser Leu Glu Ser Gly Val Pro Ser	50	55	60	
* * * * Leu Trp Ile Tyr Asp Thr Ser <u>Lys Leu Ala Ser Gly</u> Val Pro Ser	50	55	60	
Leu Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Gly	55	60	65	

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Approved	O.G. FIG.
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CLASS	SUBCLASS
DRAFTER	



APPROVED	O. G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

## FIG. 8B

65 Arg Phe Ser Gly ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile  
 70 Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile  
 \* \* \* \* \*  
 75 Arg Phe Ser Gly Ser Gly Ser Gly Asn Ser Tyr Ser Leu Thr Ile  
  
 80 Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
 Ser Ser Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Phe Gln  
 \* \* \* \* \*  
 Ser Ser Ile Gln Ala Glu Asp Val Ala Thr Tyr Tyr Cys Phe Gln  
  
 85  
 90  
  
 95 Tyr Asn Ser Tyr Ser  
 \* \* \* \* \*  
 GLY Ser GLY Tyr Pro Phe Thr Phe GLY GLY Thr Lys Leu Glu Ile Lys  
 CDR 3  
 GLY Ser GLY Tyr Pro Phe Thr Phe GLY GLY Thr Lys Leu Glu Ile Lys  
  
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## F I G. 9A

SJ153 5' -GGCGTCCGACTCACCA-  
ATGGACTGGACCTGGAGGGTCTCTGCTGGCTGTAGCACCAGGTGCCACTCCC-3'

1 -----+-----+-----+-----+-----+ 60

MetAspTrpThrArgValPheCysLeuLeuAlaValAlaProGlyAlaHisSerGln

61 GTCACCTTAAGGGAGTCTGGTCCTGCCCTGGTGAACACACAGACCCACACACTGACC  
-----+-----+-----+-----+-----+-----+-----+-----+ 120  
-----+-----+-----+-----+-----+-----+-----+-----+  
3' -GGAGTGTGACTGG

valThrLeuArgGluSerGlyProAlaLeuValLysProThrGlnThrLeuThrLeuThr

TGCAAC-3' SJ151 5' - CAG  
121 -----+-----+-----+-----+-----+-----+-----+-----+ 180  
-----+-----+-----+-----+-----+-----+-----+-----+  
ACGTGGAAGAGACCCAAAAGTGAACCTCGTGAAGACCATACTCACATCCGACCTAACGTC

CysThrPheSerGlyPheSerLeuSerThrSerGlyMetSerValGlyTrpIleArgGln

181 CCCCAAGGGAAGGCCCTGCACACTCGCTTGCAGACATTGGTGGATGACAAAAAGGACTAT  
-----+-----+-----+-----+-----+-----+-----+-----+ 240  
-----+-----+-----+-----+-----+-----+-----+-----+  
GGGGGTCCCTTCCGGG-5' SJ149 3' - GATA

ProProGlyLysAlaLeuGlutrpLeuAlaAspIleTrpAspAspLysAspTyr

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APPROVED	O. G. FIG.
BY	CLASS SUBCLASS
CRAFTSMAN	

# FIG. 9B

AATCCATCCCCCTGAAG-3'

241

AsnProSerLeuLysSerArgLeuThrIleGlyAspThrSerLysAsnGlnVal

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LeuLysValThrAsnMetAspProAlaAspThrAlaThrTyrTyrCysAlaArgSerMet

IleThrAsnTrpTyrPheAspValTrpGlyAlaGlyThrValThrValSerSer

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BY	CLASS
DRAFTSMAN	

FIG. 10

○ humanized 1129  
● Chimeric 1129

